



ORIENT-CHIP

General Description

The OCH141 is an integrated Hall Effect latched sensor designed for electronic commutation of brush-less DC motor applications. The device includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifiers the Hall voltage, and a Schmitt to provide switching hysteresis for noise rejection, and open-collector output.

An internal bandgap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

In the absence of a magnetic field, the output pin is "OFF" (High). A north pole of sufficient strength will turn the output "ON" (Low). While the magnetic flux density (B) is larger than threshold Bop, the output pin is "ON". If B removed toward Brp, the output pin is latched "ON" state prior to B < Brp. When B < Brp, the output pin goes into "OFF" state.

Features

- Bipolar Hall Effect Latch Sensor
Wide operating voltage range: 3.8V~30V
Open Collector Pre-Driver
Maximum output sink current: 30mA
Chip Power Reverse-Connection Protection
Operating Temperature: -40°C~+150°C
Package: SIP3L

Applications

- Rotor Position Sensing
Current Switch
Encoder
RPM Detection
Brush-less DC Motor
Brush-less DC Fan
Revolution counting
Speed measurement

Pin Configuration

(Top View)

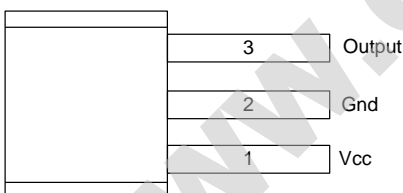
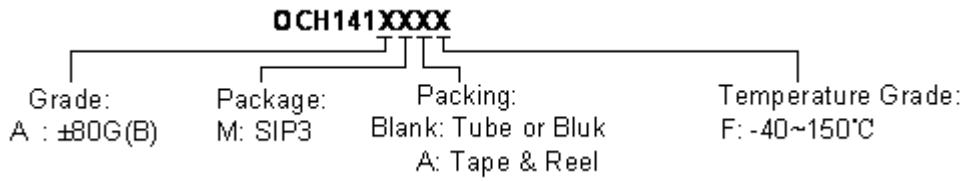


Table with 4 columns: Name, No., Status, Description. Rows include Vcc (1, P, Input Power Supply), Gnd (2, P, Ground), and Output (3, O, Output Stage of Open Collector).



Ordering Information



Part Number	Package Type	Package Qty	Brp (Gauss)	Bop (Gauss)	Temperature	Eco Plan	Lead/Ball Finish
OCH141AMF	SIP-3L	Bulk 1000pcs/bag	-80 ~ -10	10~ 80	-40~150°C	ROHS	Cu Sn

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